CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

Assistant Executive Engineer
Sub Division

8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days and 28days)	3 set /1-5 cum	18.96	6	6
10	RMC(M20)	Compressive Strength(7days and 28days)	5 set /50-100 cum	86.35	10	10
11	GSB	SIEVE ANALYSIS	One Test		1	1
12	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-12-26** **Date: 20/06/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.

Agency : Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-06-22

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/06/2022	20/06/2022	151.34 X 149.12 X 151.07	22568	8.275	411.1	18.2	18.3
2	Drain Concrete	M20	13/06/2022	20/06/2022	149.86 X 149.57 X 150.19	22415	8.126	413.4	18.4	
3	Drain Concrete	M20	13/06/2022	20/06/2022	151.34 X 150.44 X 149.87	22768	8.137	412.4	18.1	

* The results obtained are satisfactory as per standard requirements.

Note:

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Samples will be disposed after 30 days from the date of issue of test certificate

AEE (VRP) SD

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-07-12-26 **Date: 11/07/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-06-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/06/2022	11/07/2022	149.24 X 150.98 X 149.72	22532	8.184	526.9	23.4	23.7
2	Drain Concrete	M20	13/06/2022	11/07/2022	150.00 X 150.73 X 151.13	22610	9.000	545.9	24.1	
3	Drain Concrete	M20	13/06/2022	11/07/2022	150.72 X 151.95 X 150.03	22902	8.790	542.6	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-12-26** **Date: 20/06/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.

Agency : Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-06-22

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	13/06/2022	20/06/2022	149.19 X 151.92 X 150.60	22665	8.204	421.2	18.6	18.2
2	Drain Concrete	M20	13/06/2022	20/06/2022	151.40 X 149.09 X 151.76	22573	8.322	407.1	18.0	
3	Drain Concrete	M20	13/06/2022	20/06/2022	149.40 X 151.69 X 149.92	22664	9.087	410.7	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-12-26** **Date: 11/07/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.

Agency : Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-06-22

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/06/2022	11/07/2022	149.58 X 149.84 X 150.90	22413	8.875	526.9	23.5	23.7
2	Drain Concrete	M20	13/06/2022	11/07/2022	150.92 X 151.04 X 151.18	22794	8.806	545.0	23.9	
3	Drain Concrete	M20	13/06/2022	11/07/2022	151.33 X 151.96 X 149.24	22997	9.059	546.3	23.8	

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Lab ID	:	**CP-2022-07-12-26** **Date: 20/06/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-06-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	13/06/2022	20/06/2022	150.69 X 150.50 X 149.14	22678	8.150	409.2	18.0	18.3
2	Drain Concrete	M20	13/06/2022	20/06/2022	149.95 X 149.54 X 150.12	22424	8.367	416.1	18.6	
3	Drain Concrete	M20	13/06/2022	20/06/2022	149.33 X 149.11 X 149.67	22267	8.485	404.2	18.2	

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Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-06-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/06/2022	11/07/2022	151.80 X 150.46 X 150.91	22840	8.835	543.7	23.8	23.8
2	Drain Concrete	M20	13/06/2022	11/07/2022	151.39 X 150.18 X 149.17	22735	8.457	545.7	24.0	
3	Drain Concrete	M20	13/06/2022	11/07/2022	150.12 X 149.71 X 149.71	22475	8.493	533.0	23.7	

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Lab ID : **CP-2022-07-12-26** **Date: 20/06/2022**

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Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

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Agency : Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-06-22

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/06/2022	20/06/2022	150.62 X 151.58 X 150.65	22830	8.825	421.5	18.5	18.5
2	Drain Concrete	M20	13/06/2022	20/06/2022	149.09 X 151.29 X 150.31	22557	8.405	421.7	18.7	
3	Drain Concrete	M20	13/06/2022	20/06/2022	150.06 X 151.78 X 150.47	22775	8.152	417.7	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

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Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-06-22

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/06/2022	11/07/2022	150.04 X 149.17 X 150.79	22380	8.206	531.0	23.7	23.5
2	Drain Concrete	M20	13/06/2022	11/07/2022	150.04 X 149.48 X 150.07	22428	8.369	524.8	23.4	
3	Drain Concrete	M20	13/06/2022	11/07/2022	151.12 X 151.39 X 149.25	22877	8.936	536.5	23.5	

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-12-26** **Date: 20/06/2022**

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Project Name : Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.

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Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-06-22

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	13/06/2022	20/06/2022	151.95 X 149.69 X 150.27	22744	8.617	414.2	18.2	18.7
2	Drain Concrete	M20	13/06/2022	20/06/2022	149.34 X 151.93 X 150.89	22688	8.297	429.6	18.9	
3	Drain Concrete	M20	13/06/2022	20/06/2022	151.89 X 150.43 X 149.80	22848	8.533	433.8	19.0	

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Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-06-22

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/06/2022	11/07/2022	149.62 X 150.50 X 149.24	22518	8.427	530.4	23.6	23.5
2	Drain Concrete	M20	13/06/2022	11/07/2022	151.46 X 149.55 X 150.82	22652	8.739	531.8	23.5	
3	Drain Concrete	M20	13/06/2022	11/07/2022	149.77 X 149.26 X 149.64	22355	8.376	523.3	23.4	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-07-12-26 **Date: 22/06/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-06-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/06/2022	22/06/2022	151.98 X 151.75 X 150.41	23062	8.680	280.3	12.2	11.8
2	PCC	M15	15/06/2022	22/06/2022	149.85 X 149.53 X 150.67	22408	8.579	269.2	12.0	
3	PCC	M15	15/06/2022	22/06/2022	151.54 X 151.70 X 150.34	22989	8.632	258.4	11.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-12-26** **Date: 13/07/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.

Agency : Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-06-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/06/2022	13/07/2022	149.17 X 149.15 X 151.17	22248	8.765	414.1	18.6	18.9
2	PCC	M15	15/06/2022	13/07/2022	149.04 X 150.14 X 150.38	22376	8.255	424.7	19.0	
3	PCC	M15	15/06/2022	13/07/2022	149.98 X 151.21 X 149.10	22679	8.381	430.6	19.0	

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Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-07-12-26 **Date: 22/06/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-06-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/06/2022	22/06/2022	150.59 X 151.91 X 151.97	22877	8.667	288.5	12.6	12.1
2	PCC	M15	15/06/2022	22/06/2022	151.25 X 151.48 X 150.59	22912	8.948	273.1	11.9	
3	PCC	M15	15/06/2022	22/06/2022	151.24 X 151.25 X 149.41	22875	8.227	270.3	11.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-12-26** **Date: 13/07/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.

Agency : Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-06-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	15/06/2022	13/07/2022	150.90 X 149.33 X 151.77	22534	8.773	410.4	18.2	18.2
2	PCC	M15	15/06/2022	13/07/2022	150.71 X 149.67 X 150.26	22557	8.920	409.5	18.2	
3	PCC	M15	15/06/2022	13/07/2022	150.11 X 150.08 X 149.22	22529	8.306	409.1	18.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-07-12-26 **Date: 22/06/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-06-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	15/06/2022	22/06/2022	150.91 X 149.91 X 149.79	22623	8.155	282.7	12.5	12.1
2	PCC	M15	15/06/2022	22/06/2022	151.13 X 151.08 X 150.68	22832	8.993	283.8	12.4	
3	PCC	M15	15/06/2022	22/06/2022	150.98 X 151.18 X 150.50	22824	8.262	259.8	11.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-12-26** **Date: 13/07/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.

Agency : Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-06-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/06/2022	13/07/2022	149.40 X 150.44 X 151.54	22476	9.018	404.7	18.0	18.3
2	PCC	M15	15/06/2022	13/07/2022	149.82 X 150.59 X 150.02	22561	8.727	411.4	18.2	
3	PCC	M15	15/06/2022	13/07/2022	149.72 X 149.75 X 150.24	22420	8.381	415.7	18.5	

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-2022-07-12-26** **Date: 06-07-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-22
Type of Mix	:	GSB (Granular Sub Base)
Date of Test	:	04-07-22
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	785	785	7.9	92.2	80-100
26.5	1765	2550	25.5	74.5	55-90
9.5	1245	3795	38.0	62.1	35-65
4.75	1896	5691	56.9	43.1	25-50
2.36	2901	8592	85.9	14.1	10-20
0.85	1045	9637	96.4	3.6	2-10
0.425	158	9795	98.0	2.1	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	23.50%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2022-07-12-26** **Date: 09-07-22**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.

Agency : Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-07-22

Type of Mix : WMM (Wet Mix Macadam)

Date of Test : 07-07-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	215	215	2.0	98.0	95-100
22.4	2385	2600	23.6	76.4	60-80
11.2	2247	4847	44.1	55.9	40-60
4.75	2746	7593	69.0	31.0	25-40
2.36	1163	8756	79.6	20.4	15-30
0.6	879	9635	87.6	12.4	8-22
0.075	965	10600	96.4	3.6	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2022-07-12-26** **Date: 09-07-22**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.

Agency : Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-07-22

Type of Mix : WMM (Wet Mix Macadam)

Date of Test : 07-07-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	222	222	2.0	98.0	95-100
22.4	2158	2380	21.6	78.4	60-80
11.2	2344	4724	42.9	57.1	40-60
4.75	2598	7322	66.6	33.4	25-40
2.36	1865	9187	83.5	16.5	15-30
0.6	745	9932	90.3	9.7	8-22
0.075	845	10777	98.0	2.0	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2022-07-12-26** **Date: 09-07-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-07-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	07-07-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	226	226	2.1	97.9	95-100
22.4	2501	2727	24.8	75.2	60-80
11.2	2201	4928	44.8	55.2	40-60
4.75	2698	7626	69.3	30.7	25-40
2.36	1099	8725	79.3	20.7	15-30
0.6	969	9694	88.1	11.9	8-22
0.075	955	10649	96.8	3.2	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : CP-2022-07-12-26 **Date: 09-07-22**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.

Agency : Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-07-22

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of Test : 07-07-22

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	305.4	305.4
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	84.0	82.6
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	221.0	221.9
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.9
5	Aggregate impact value	(B/A)*100	27.5	27.0
6	Aggregate impact value (Mean of two tests)	Pecentage	27.3	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2022-07-12-26** **Date: 09-07-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-07-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	07-07-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.1%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.9%	
Combined Flakiness and Elongation Index for WMM	25.0%	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2022-07-12-26**	**Date: 09-07-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.	
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094	
Customer Reference	:	BBMP/EE/BTP/WO/56/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	07-07-22	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of Test	:	07-07-22	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.3%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.7%	
Combined Flakiness and Elongation Index for WMM	23.0%	

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2022-07-12-26** **Date: 14-06-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-06-22
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	10-06-22

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	203	202	16443	33.64	2045.6	2033.9	Not less than 1800Kg/m^3
2	400	200	199	15920	32.31	2029.4		
3	401	203	203	16525	33.49	2026.7		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	32.48	31.15	4.11	3.89	Shall not be more than 10% by mass
2	34.58	33.21	3.98		
3	33.44	32.25	3.57		

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Lab ID : CP-2022-07-12-26 Date: 14-06-22

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	202	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	202	199	
3	401	199	202	
4	399	202	203	
5	400	200	201	
6	403	200	200	
7	402	201	202	
8	404	201	199	
9	404	200	201	
10	404	200	199	
11	401	200	202	
12	400	201	200	
13	404	201	201	
14	399	201	201	
15	404	203	200	
16	403	199	201	
17	400	200	203	
18	402	199	203	
19	400	201	199	
20	401	203	203	
Average of 20	**402**	**201**	**201**	

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Lab ID : CP-2022-07-12-26 Date: 14-06-22

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	202	80662	384.3	4.8	4.8
2	400	202	80663	377.7	4.7	
3	401	199	80022	376.5	4.7	
4	399	202	80816	380.4	4.7	
5	400	200	79806	389.6	4.9	
6	403	200	80470	387.1	4.8	
7	402	201	80965	390.2	4.8	
8	404	201	81049	384.2	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-07-12-26**	**Date: 14-06-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.	
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094	
Customer's Reference	:	BBMP/EE/BTP/WO/56/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-06-22	
Sample Type /Size	:	Precast Cover Slab-100mm Thick	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete	
Date of test	:	10/06/2022	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.52	100.49	1.118	4478	83.4	18.6	17.3	21.6
2	Cover Slab-2	75.48	100.51	1.124	4474	87.1	19.5	18.1	22.6
3	Cover Slab-3	75.51	100.52	1.116	4477	85.6	19.1	17.8	22.2

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2022-07-12-26** **Date: 12-06-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-06-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	10-06-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.92	542	648	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	565	683	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.884	584	690	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2022-07-12-26 **Date: 14-06-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-06-22
Sample Type /Size	:	Precast Cover Slab-250mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	10/06/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	540.9	17.1	15.9	19.9
2	Cover Slab-2	200.49	250.52	3.122	31564	542.3	17.2	16.0	20.0
3	Cover Slab-3	200.50	250.51	3.118	31567	541.5	17.2	16.0	19.9

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-07-12-26** **Date: 13-06-22**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.

Agency : Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-06-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 10-06-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	49	81	8.1	91.9	60-95	75-100	85-100	95-100
4	1.18 mm	241	322	32.2	67.8	30-70	55-90	75-100	90-100
5	600 micron	199	521	52.1	47.9	15-34	35-59	60-79	80-100
6	300 micron	200	721	72.1	27.9	5-20	8-30	12-40	15-50
7	150 micron	198	919	91.9	8.1	0-10	0-10	0-10	0-15
8	Pan	81	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-07-12-26** **Date: 13-06-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.28	_
2	Specific Gravity	2.56	_
3	Material finer than 75 micron(%)	8.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-12-26** **Date: 13-06-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-06-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-06-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	–

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-07-12-26** **Date: 13-06-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.25	_
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-07-12-26** **Date: 13-06-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-06-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	10-06-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.53	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig Date BANGALORE

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

AEE (VRP) SD

****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-07-12-26** **Date: 08-07-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-06-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	10-06-22 .
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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Technical Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-12-26** **Date: 13-06-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Thindlu and Kodigehalli Surrounding areas in Ward No.09 Vidyaranayapura.
Agency	:	Sri.K V Subba Reddy, No.106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	10-06-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-06-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	318	318	2.1	97.9	90-100
3	20 mm	7441	7759	51.7	48.3	30-70
4	10 mm	5152	12911	86.1	13.9	10-35
5	4.75 mm	1711	14622	97.5	2.5	0-5
6	Pan	378	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-07-12-26** **Date: 13-06-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.5	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.42	–
6	Water Absorption(%)	0.26	–

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